

CLAIMS

1. A device for connecting a fixing region of a guide rail to the door body of a vehicle door which has on an outer surface area an opening through which a fixing means can be fitted

wherein

a guide part which can be inserted into an outer surface area of the door body containing the opening and which can be connected to same to hold the fixing means and the fixing region of the guide rail.

2. The device according to claim 1, **wherein** the fixing region of the guide rail can be adjusted inside the guide part in the direction of the vehicle transverse axis (Y-axis).

3. The device according to claim 1 or 2, **wherein** the guide part which can be pre-positioned on the fixing region of the guide rail can be adjusted in the direction of the vehicle longitudinal axis (X-axis) opposite the outer surface area of the door body.

4. The device according to claim 1, **wherein** the guide part is in two parts and has a cover which can be connected to a base plate wherein a part of the fixing means is mounted with positive locking connection between same, and a part of the fixing region of the guide rail is arranged displaceable perpendicular to the plane of the vehicle door (Y-axis).

5. The device according to claim 4, **wherein** the base plate and the cover of the guide part are connected together through a hinge, preferably a film hinge and that the guide part is designed as a plastics moulded part in the manner of a cassette.

6. The device according to claim 1, **wherein** the guide part has a convex stop which is directed to one side edge of the fixing region of the guide rail.

7. The device according to claim 1, **wh rein** the base plate and the cover of the guide part are connected together through mutually aligned positive locking and connecting elements , that the cover of the guide part has a closing clip which protrudes from the inside of the cover and which when the guide part is closed engages in a closing opening of the base plate of the guide part , that a positive locking element protrudes from a raised surface of the cover and when the guide part is closed engages in an opening of the base plate adapted to the cross-sectional shape of the positive locking element and that the positive locking element is formed as a web which protrudes from the raised surface of the cover of the guide part and runs in the direction of the Y-axis when the guide part is fitted and that the counter positive locking element consists of an oblong hole which is mounted in the base plate of the guide part.
8. The device according to claim 1, **wherein** the guide part has a pre-setting element which can be connected with positive locking engagement to the fixing region of the guide rail and which consists of a spring element which is connected to the cover or the base plate of the guide part, is let into the cover or the base plate of the guide part or is shaped out from the surface of the cover or base plate of the guide part, wherein the spring element has a projection which engages with positive locking connection into an opening of the fixing region of the guide rail.
9. The device according to claim 1, **wherein** fixing clips protrude from the base plate of the guide part and engage in slots running parallel to the X-axis with the length in the outer surface area of the door body which corresponds to the adjustment in the direction of the X-axis.
10. The device according to claim 1, **wherein** the fixing means consist of a fixing screw connected to the guide part and of a fixing nut which can be screwed from outside of the outer surface area of the door body onto the thread of the fixing screw and that the screw head of the fixing screw is inserted with positive locking action into a screw head socket of the cover of the guide part.

11. The device according to claim 1, **wherein** an adjusting lever protrudes angled from the fixing region of the guide rail and engages through an opening provided in the outer surface area of the door body and can be operated from outside of the door body.

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12. The device according to claim 1, **wherein** the guide rail and the fixing region of the guide rail and the guide part form one pre-assembled unit with the fixing means inserted therein.

- 10 13. The device for connecting the fixing region of a guide rail to the door body of a vehicle door which has on an outer surface area an opening through which a fixing means can be fitted,

wherein

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a guide part which is prefitted on the fixing region of the guide rail and can be connected to the door body and which receives a first part of the multi-part fixing means, a device for aligning the fixing region of the guide rail to the guide part and to the door body at least in the direction of the vehicle transverse axis (Y-axis) and a second part of the fixing means for producing a clamping connection between the fixing region of the guide rail and the door body.

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14. The device according to claim 13, **wherein** the guide part is formed in one piece and on the side of the fixing region remote from the door body is connected displaceable and with positive locking engagement to the fixing region of the guide rail.

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15. The device according to claim 13 or 14, **wherein** a part of the fixing means is pushed through a slot opening running in the direction of the vehicle transverse axis (Y-axis) in the fixing region of the guide rail.

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16. The device according to claim 1, **wherein** the fixing region of the guide rail has a contact bearing face and edge zones angled from the contact bearing face and running parallel to the slot opening, and that the guide part engages

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clip-like round the edge zones and can be inserted with its studs with positive locking connection into positioning openings of the door body.

- 5 17. The device according to claim 16, **wherein** to connect a double strand cable window lifter to the door body of a vehicle door the slot opening is in the fixing region of a guide rail wider than the part of the fixing means pushed through the slot opening and the clip-like studs of the guide part associated with the fixing region of the guide rail engage with play in the direction of the vehicle longitudinal axis (X-direction).
- 10 18. The device according to claim 16 or 17, **wherein** the one angled edge zone of the fixing region of the guide rail has positive locking elements with which counter positive locking elements of a tool which can be inserted into a pot shaped tool socket of the one stud of the guide part open to the door body,
- 15 can be brought into engagement, and that in the other stud of the guide part there is a bearing bead which bears against the outer edge of the angled edge zone of the fixing region of the guide rail engaged by this stud.
- 20 19. The device according to claim 13, **wherein** a detent connection which engages in a nominal position of the guide part relative to the fixing region of the guide rail and which consists of an opening provided in the one angled edge zone of the fixing region of the guide rail and of a detent catch of the guide part engaging in the opening and having a ball head which engages in the opening of the fixing region of the guide rail.
- 25 20. The device according to claim 19, **wherein** the detent catch or ball head can be released from its connection with the opening of the fixing region of the guide rail.
- 30 21. The device according to claim 13, **wherein** the fixing means consists of the connection of a fixing screw with a fixing nut and that the guide part holds the fixing screw or fixing nut of the fixing means in a fixing means socket which secures the fixing screw or fixing nut in the axial direction of the fixing screw and in the rotational direction.